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☐ 1. Document ID: US 20020055721 A1

L6: Entry 1 of 10 File: PGPB May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055721
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020055721 A1

TITLE: Biocompatible pharmaceutical articles

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Palasis, Maria	Wellsley	MA	US	
Naimark, Wendy	Cambridge	MA	US	
Mickley, Timothy	Elk River	MN	US	
Crank, Justin	Minneapolis	MN	US	

US-CL-CURRENT: 604/265; 604/268

ABSTRACT:

Many conventional pharmaceutical articles contain seemingly inert components that come into contact with a pharmaceutically active material during use, which contact substantially reduces the pharmaceutical effectiveness of the pharmaceutically active material. The invention described herein concerns various modifications to these incompatible components, which are effective to diminish the reduction in pharmaceutical effectiveness.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20010041184 A1

L6: Entry 2 of 10 File: PGPB Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041184
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010041184 A1

TITLE: Nitric oxide-releasing metallic medical devices

PUBLICATION-DATE: November 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fitzhugh, Anthony L.	Frederick	MD	US	
Cheng, Peiwen	Santa Rosa	CA	US	
Saavedra, Joseph	Thurmont	MD	US	
Cafferata, Robert	Belmont	MA	US	
Hendriks, Marc	Brunssum	MD	NL	
Keefer, Larry K.	Bethesda	CA	US	
Tedeschi, Eugene	Santa Rosa		US	
Verhoeven, Michel I.P.M.	Maastricht		NL	

US-CL-CURRENT: 424/400; 427/2.28

ABSTRACT:

Biocompatible metallic medical devices having silanized surfaces coupled to nucleophile residues that release sustained, therapeutic amounts of nitric oxide to specific sites within a mammalian body are provided. Additionally, the biocompatible metallic medical devices can also be provided with anti-thrombogenic, lubricious coatings that release sustained, therapeutic amounts of nitric oxide. Moreover, the silanized metallic devices are surprisingly durable when exposed to harsh chemical methods often needed to bind nitric oxide-releasing functional groups to nucleophile residues. Furthermore, methods are provided for producing stable, silanized, sustained nitric oxide-releasing metallic medical devices.

☐ 3. Document ID: US 6383500 B1

L6: Entry 3 of 10 File: USPT May 7, 2002

US-PAT-NO: 6383500
DOCUMENT-IDENTIFIER: US 6383500 B1

TITLE: Particles comprising amphiphilic copolymers, having a crosslinked shell domain and an interior core domain, useful for pharmaceutical and other applications

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wooley; Karen L.	St. Louis	MO		
Thurmond, II; K. Bruce	St. Louis	MO		
Huang; Haiyong	St. Louis	MO		

US-CL-CURRENT: 424/401; 424/408, 424/439, 424/497, 424/78.13, 428/407

ABSTRACT:

Provided are particles comprising amphiphilic copolymers, having a crosslinked shell domain and an interior core domain. Also provided are compositions comprising such particles, including pharmaceutical compositions, methods of making the present particles, and methods of using such particles, for example for delivery of pharmaceutically active agents.

98 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

☐ 4. Document ID: US 6270779 B1

L6: Entry 4 of 10 File: USPT Aug 7, 2001

US-PAT-NO: 6270779
DOCUMENT-IDENTIFIER: US 6270779 B1

TITLE: Nitric oxide-releasing metallic medical devices

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fitzhugh; Anthony L.	Frederick	MD		
Cheng; Peiwen	Santa Rosa	CA		
Saavedra; Joseph	Thurmont	MD		
Cafferata; Robert	Belmont	MA		
Hendriks; Marc	Brunssum			NLX
Keefer; Larry K.	Bethesda	MD		
Tedeschi; Eugene	Santa Rosa	CA		
Verhoeven; Michel L. P. M.	Maastricht			NLX

US-CL-CURRENT: 424/400; 424/422, 424/423, 424/718, 424/78.27

ABSTRACT:

Biocompatible metallic medical devices having silanized surfaces coupled to nucleophile residues that release sustained, therapeutic amounts of nitric oxide to specific sites within a mammalian body are provided. Additionally, the biocompatible metallic medical devices can also be provided with anti-thrombogenic, lubricious coatings that release sustained, therapeutic amounts of nitric oxide. Moreover, the silanized metallic devices are surprisingly durable when exposed to harsh chemical methods often needed to bind nitric oxide-releasing functional groups to nucleophile residues. Furthermore, methods are provided for producing stable, silanized, sustained nitric oxide-releasing metallic medical devices.

14 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 5. Document ID: US 6254990 B1

L6: Entry 5 of 10 File: USPT Jul 3, 2001

US-PAT-NO: 6254990
DOCUMENT-IDENTIFIER: US 6254990 B1

TITLE: Surface-crosslinking process for water-absorbent resin

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishizaki; Kunihiko	Suita			JPX
Kanto; Teruyuki	Himeji			JPX
Sakamoto; Shigeru	Himeji			JPX
Harada; Nobuyuki	Suita			JPX
Hitomi; Kazuhisa	Himeji			JPX

US-CL-CURRENT: 428/402; 525/329.7, 525/330.1, 525/384

ABSTRACT:

The present invention provides a surface-crosslinking process of a water-absorbent resin to obtain a water-absorbing agent which has high absorption speed and excellent absorption capacity under a load (a water-absorbent resin which has specific or larger values of properties). In a process comprising the step of adding a crosslinking agent to a dry water-absorbent resin powder to thereby crosslink the neighborhood of its surface, the surface-crosslinking is carried out while the resin powder having a weight-average particle diameter of 200 to 1,000 .mu.m is pulverized.

17 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 6228930 B1

L6: Entry 6 of 10 File: USPT May 8, 2001

US-PAT-NO: 6228930
DOCUMENT-IDENTIFIER: US 6228930 B1

TITLE: Water-absorbent resin granule-containing composition and production process for water-absorbent resin granule

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dairoku; Yorimichi	Himeji			JPX
Ishizaki; Kunihiko	Suita			JPX
Hatsuda; Takumi	Takasago			JPX
Hitomi; Kazuhisa	Himeji			JPX
Kajikawa; Katsuhiro	Himeji			JPX
Yamada; Soichi	Himeji			JPX

US-CL-CURRENT: 524/500; 524/501, 524/502, 524/515

ABSTRACT:

The invention provides: a water-absorbent resin granule-containing composition with resolution of various problems, as caused by water-absorbent resin fine powders, and with high granulation strength, and with no physical property deterioration due to granulation, and, if anything, with improvement of the absorption capacity under a load by granulation; and a process for producing the above granule. A water-absorbent resin primary particle and a water-absorbent resin granule are separately surface-crosslinked and then mixed, or mixed and then surface-crosslinked. The granulation is carried out by mixing a preheated aqueous liquid and a water-absorbent resin powder at a high speed or by supplying a water-absorbent resin powder downstream of an aqueous liquid with a continuous extrusion mixer.

14 Claims, 13 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 5919442 A

L6: Entry 7 of 10 File: USPT Jul 6, 1999

US-PAT-NO: 5919442
DOCUMENT-IDENTIFIER: US 5919442 A

TITLE: Hyper comb-branched polymer conjugates

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yin; Rui	Midland	MI		
Tomalia; Donald A.	Midland	MI		
Hedstrand; David M.	Midland	MI		
Swanson; Douglas R.	Midland	MI		
Baker, Jr.; James R.	Ann Arbor	MI		
Kukowska-Latallo; Jolanta F.	Ann Arbor	MI		

US-CL-CURRENT: 424/78.18; 424/1.11, 424/1.33, 424/1.37, 424/178.1, 424/184.1, 424/193.1, 424/280.1, 424/405, 424/406, 424/422, 424/486, 424/487, 424/78.01, 424/78.19, 424/84, 424/85.1, 424/9.1, 424/DIG.16, 435/455, 514/44, 514/772, 525/417, 525/539, 525/902

ABSTRACT:

A novel class of hyper comb-branched polymers conjugated with carried materials are disclosed.

92 Claims, 39 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 28

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 5782908 A

L6: Entry 8 of 10 File: USPT Jul 21, 1998

US-PAT-NO: 5782908
DOCUMENT-IDENTIFIER: US 5782908 A

TITLE: Biocompatible medical article and method

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahalan; Linda L.	Geleen			NLX
Cahalan; Patrick T.	Geleen			NLX
Verhoeven; Michel	Maastricht			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX

US-CL-CURRENT: 623/1.13; 424/422, 424/423, 427/2.24

ABSTRACT:

A medical article having a metal or glass surface with the surface having an adherent coating of improved biocompatibility. The coating is made by first applying to the surface an silane compound having a pendant vinyl functionality such that the silane adheres to the surface and then, in a separate step, forming a graft polymer on the surface with applied vinylsilane such that the pendant vinyl functionality of the vinylsilane is incorporated into the graft polymer by covalent bonding with the polymer. Biomolecules may then be covalently attached to the base layer.

15 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 9. Document ID: US 5672638 A

L6: Entry 9 of 10 File: USPT Sep 30, 1997

US-PAT-NO: 5672638
DOCUMENT-IDENTIFIER: US 5672638 A

TITLE: Biocompatability for solid surfaces

DATE-ISSUED: September 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Verhoeven; Michel	Maastricht			NLX
Cahalan; Linda L.	Geleen			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX
Cahalan; Patrick T.	Geleen			NLX

US-CL-CURRENT: 523/112; 424/423, 424/78.36, 427/2.25, 435/180, 435/181, 523/113, 623/924

ABSTRACT:

An improved coating and spacer material for a medical device having a blood or tissue-contacting surface comprising a polyalkyleneimine layer which is crosslinked with a crosslinking agent which is at least difunctional in polymerizable vinyl groups which have adjacent strong electron-withdrawing groups and a biomolecule covalently bonded to the crosslinked polyalkyleneimine layer. For example, polyethyleneimine crosslinked with divinyl sulfone could be used. The resulting crosslinked spacer layer has improved uniformity and stability without materially limiting the covalent attachment of a biomolecule such as heparin.

6 Claims, 0 Drawing figures
Exemplary Claim Number: 1

10. Document ID: US 5607475 A

L6: Entry 10 of 10 File: USPT Mar 4, 1997

US-PAT-NO: 5607475
DOCUMENT-IDENTIFIER: US 5607475 A

TITLE: Biocompatible medical article and method

DATE-ISSUED: March 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahalan; Linda L.	Geleen			NLX
Cahalan; Patrick T.	Geleen			NLX
Verhoeven; Michel	Maastricht			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX

US-CL-CURRENT: 424/423; 424/422, 427/2.24, 623/23.59, 623/924

ABSTRACT:

A medical article having a metal or glass surface with the surface having an adherent coating of improved biocompatibility. The coating is made by first applying to the surface an silane compound having a pendant vinyl functionality such that the silane adheres to the surface and then, in a separate step, forming a graft polymer on the surface with applied vinylsilane such that the pendant vinyl functionality of the vinylsilane is incorporated into the graft polymer by covalent bonding with the polymer. Biomolecules may then be covalently attached to the base layer.

12 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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Term	Documents
(4 AND 5).USPT,PGPB,JPAB,EPAB,DWPI.	10
(L5 AND L4).USPT,PGPB,JPAB,EPAB,DWPI.	10

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DATE: Friday, May 31, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ			
L18	L17 and (hydrogel or acryl$3 adj polymer)	6	L18
L17	l4 and l1	18	L17
L16	l4 and l2	0	L16
L15	L14 and nitric oxide	12	L15
L14	l1 and l2	278	L14
L13	L12 and l2	0	L13
L12	l4 and l1	18	L12
L11	l7 and l5	2	L11
L10	L9 and l5	2	L10
L9	L8 and l1	14	L9
L8	l3 and l2	17	L8
L7	$30silane and l1 and l2	17	L7
L6	l1 and l2 and diazeniumdiolate	0	L6
L5	nitric oxide and l1 and l2	12	L5
L4	nitric oxide and diazeniumdiolate	27	L4
L3	pei or polyethylenimine	7954	L3
L2	coat$3 and hydrogel and acryl$3 polymer	588	L2
L1	stent or graft or guide wire or catheter	161759	L1

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(L8 AND L4).USPT,PGPB,JPAB,EPAB,DWPI.	4

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

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DATE: Thursday, May 30, 2002 Printable Copy Create Case

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ			
L10	l8 and l4	4	L10
L9	L8 and l6	2	L9
L8	diazeniumdiolate and l7	27	L8
L7	nitric oxide	9262	L7
L6	L5 and l4	10	L6
L5	(pei or polyethylenimine) and coat$3	3248	L5
L4	L3 and $30silane	102	L4
L3	L2 and l1	1363	L3
L2	coat$3 and hydrogel and acryl$3	3411	L2
L1	stent or graft or guide wire or catheter	161644	L1

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